

Federal Operating Permit

Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1 of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name: ABB, Inc.
Facility Name: ABB, Inc.
Facility Location: State Route 1011
 Bland, VA 24315

Registration Number: 10814
Permit Number: SWRO10814

Effective Date: August 21, 2001

Expiration Date: August 21, 2006

Minor Modification Date: March 13, 2002

Significant Modification Date: December 8, 2003

Robert G. Burnley
Director

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I. Facility Information

Permittee

ABB, Inc.
P.O. Box 38
Bland, VA 24315

Responsible Official

Bobbie C. Wimmer
Local Sustainability Officer

Facility

ABB, Inc.
P.O. Box 38
Bland, VA 24315

Contact Person

Bobbie C. Wimmer
Local Sustainability Officer
(276) 688-1508

AFS Identification Number: 51-021-00008

Facility Description: SIC Code 3612 – ABB, Inc. is a manufacturer of dry, power distribution transformers - SIC Code 3612. They simultaneously fabricate the transformer core and coils, and the sheet metal transformer cabinets. The coils are made by winding wire or strip conductor. The core is assembled from steel sheets sheared to length and placed together. The coils are installed onto the legs of the core. From there, the core/coils go through impregnation to provide a coating of varnish and then cured. Transformer cabinets are fabricated by welding, shearing, punching, and bending sheet metal. The cabinets are either electrostatically dry coated or wet spray coated. The transformer core is then installed in the cabinet for shipment.

II. Emission Units

Equipment to be operated consists of:

<i>Emission Unit ID</i>	<i>Stack ID</i>	<i>Emission Unit Description</i>	<i>Size/Rated Capacity</i>	<i>Pollution Control Device Description (PCD)</i>	<i>PCD ID</i>	<i>Pollutant Controlled</i>	<i>Applicable Permit Date</i>
V97-01	V97-01A	Steelman LP Gas Oven	0.35 MMBtu/hr	- -	- -	- -	August 31, 1999, as amended 04/18/00, 03/12/02, and 07/29/03
V97-02	V97-02A	Steelman LP Gas Oven	0.35 MMBtu/hr	- -	- -	- -	
V97-04	- -	2 Nordson Electrostatic Paint Booths	200 lb/hr, each	Paint Recycler and Pulse Jet Cartridge Filters	V97-04	Particulate	
V97-06	V97-06A	Devilbiss Spray Booth	5.6 gal/hr	Kraft Paper Filters	V97-06	Particulate	
V97-07	V97-07A	ASI Four Stage Parts Washer	1.98 MMBtu/hr	- -	- -	- -	
V97-08	V97-08A	ASI Curing Oven	2.5 MMBtu/hr	- -	- -	- -	
V97-09	V97-09A V97-09B	2 Kaufman Electric Curing Ovens	83 kW each	- -	- -	- -	
V97-10	V97-10A	Kaufman Electric Curing Oven	36 kW	- -	- -	- -	
V97-11	V97-11A	LP Dry-Off Oven	1.5 MMBtu/hr	- -	- -	- -	August 31, 1999 as amended 04/14/00, 03/12/02, and 07/29/03
V97-12	V97-12A	Kaufman Electric Curing Oven and Varnish Dipping Operation	250 kW and 25 gal/hr	- -	- -	- -	
V97-13	V97-13A	Despatch Curing Oven and Dipping Operation	204 kW and 25 gal/hr	- -	- -	- -	
V97-15A	- -	Sawing & Grinding Process Operation	4.8 lb/hr	Pneumafil Bag House Model 4.5-40-10 Reverse Air	V97-15A	Particulate	

<i>Emission Unit ID</i>	<i>Stack ID</i>	<i>Emission Unit Description</i>	<i>Size/Rated Capacity</i>	<i>Pollution Control Device Description (PCD)</i>	<i>PCD ID</i>	<i>Pollutant Controlled</i>	<i>Applicable Permit Date</i>
V97-16	--	Epoxy Cast Dosing Vessel	--	--	--	--	
V97-17	--	Electric Cast Curing Oven	--	--	--	--	
V97-24	--	Propane ASI Parts Dryer	0.075 MMBtu/hr	--	--	--	
V97-28	V97-28A	Sawing & Grinding Process Operation	400 fpm	Pneumafil Mod. CW UP Pulse Jet Baghouse	V97-28	Particulate	
V97-29	--	Wood Sawing / Crate Bldg.	400 fpm	Dustex Model 500 B Sock Filter	V97-29	Particulate	
V97-31	V97-31A	Epoxy Cast. System - Elec. Curing Ovens	0.45 MMBtu/hr	--	--	--	
V97-32	--	Epoxy Casting Sytem – Vac. Casting Equip.	5.1 coils/day	--	--	--	
V97-33	--	Sawing & Grinding Process Operation	--	Donaldson Torit	V97-33	Particulate	
--	--	Silo	1910 ft3	Vent Filter	--	Particulate	

*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

III. Process Equipment Requirements – (Ref #s V97-01, V97-02, V97-04, V97-06, V97-09, V97-10, V97-11, V97-12, V97-13, V97-15A, V97-24, V97-28, V97-31, V97-32, V97-33)

A. Limitations

1. Particulate emissions from the paint spray booth (V97-06) shall be controlled by paper filters or equivalent. The filters shall be provided with adequate access for inspection.
(9 VAC 5-80-110, 9 VAC 5-80-10 H, 9 VAC 5-50-260, and Condition 3 of 08/31/99 Permit (as amended 04/18/00, 03/12/02, and 07/29/03))
2. Particulate emissions from each of the electrostatic spray painting units (V97-04) shall be controlled by a Nordson recycle separator and fabric filter or equivalent. Each filter and separator shall be provided with adequate access for inspection.
(9 VAC 5-80-110, 9 VAC 5-80-10 H, 9 VAC 5-50-260, and Condition 4 of 08/31/99 Permit, (as amended 04/18/00, 03/12/02, and 07/29/03))
3. Particulate emissions from loading the silo shall be controlled by a vent fabric filter or equivalent. The vent fabric filter shall be provided with adequate access for inspection.
(9 VAC 5-80-110, 9 VAC 5-80-10 H, 9 VAC 5-50-260, and Condition 5 of 08/31/99 Permit, (as amended 04/18/00, 03/12/02, and 07/29/03))
4. Particulate emissions from the sawing, sanding and grinding operations (V97-33) shall be controlled by a Donaldson Torit fabric filter or equivalent. The fabric filter shall be provided with adequate access for inspection.
(9 VAC 5-80-110, 9 VAC 5-80-10 H, 9 VAC 5-50-260, and Condition 6 of 08/31/99 Permit, (as amended 04/18/00, 03/12/02, and 07/29/03))
5. Particulate emissions from the wood sawing operation (V97-29) shall be controlled by a Dustex sock fabric filter or equivalent. The fabric filter shall be provided with adequate access for inspection.
(9 VAC 5-80-110 and 9 VAC 5-40-2270)
6. The approved fuels for the ASI four-stage parts washer (V97-07), the ASI curing oven (V97-08), parts dryer (V97-24), the two Steelman Industries ovens (V97-01, V97-02), and the dry-off oven (V97-11) are propane and natural gas. A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 10 of 8/31/99 Permit, (as amended 04/18/00, 03/12/02, and 07/29/03))

7. Volatile organic compound (VOC) emissions from the epoxy casting system (V97-31, V97-32) are limited to 0.55 T/yr for an individual epoxy and 1 T/yr for the total of all materials processed through the system. The yearly rate to be calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-110, 9 VAC 5-80-10 H, 9 VAC 5-50-260, 9 VAC 5-50-180 and Condition 11 of the 08/31/99 Permit, (as amended 04/18/00, 03/12/02, and 07/29/03))

8. The coatings used in the paint spray booth (V97-06) shall not exceed the following specification and shall contain only those toxic pollutants listed below. Any change may require a permit to modify and operate (% values by weight).

Density	14.3 lb/gal
Volatile Organic Compounds	7.2 lb/gal
Toluene	45%
Xylene	40%
Methyl Isobutyl Ketone	35%
Methyl Ethyl Ketone	35%
Ethyl Benzene	10%
Ethylene Glycol	10%
Methyl Alcohol	10%

- (9 VAC 5-80-110, 9 VAC 5-80-10 H, 9 VAC 5-50-260, and Condition 9 of 08/31/99 Permit, (as amended 04/18/00, 03/12/02, and 07/29/03))
9. The dipping operations (V97-12, V97-13) shall consume no more than 96.0 tons per year of Isonel 51 or equivalent, no more than 44.1 tons per year of Dow Corning 997 or equivalent, calculated as the sum of each consecutive twelve month period.
(9 VAC 5-80-110, 9 VAC 5-80-10 H, 9 VAC 5-50-260, and Condition 8 of 08/31/99 Permit, (as amended 04/18/00, 03/12/02, and 07/29/03))
10. The annual throughput of coatings in the paint spray booth (V97-06) shall not exceed 11,000 gallons per year, calculated monthly as the sum of each consecutive 12 month period.
(9 VAC 5-80-110, 9 VAC 5-80-10 H, 9 VAC 5-50-260, and Condition 7 of 08/31/99 Permit, (as amended 04/18/00, 03/12/02, and 07/29/03))
11. Visible emissions from the paint spray booth (V97-06) and the epoxy casting system (V97-31, V97-32) shall not exceed five (5) percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 15 of 08/31/99 Permit, (as amended 04/18/00, 03/12/02, and 07/29/03))

12. Visible emissions from the silo, wood sawing (V97-29), fiberglass sawing/grinding (V97-15A), the resin sawing/grinding (V97-28, V97-33), and the dry-off oven (V97-11) shall not exceed 20 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-80-110 and 9 VAC 5-50-80)
13. Visible emissions from the Kaufman (V97-09, V97-10, V97-12), Despatch (V97-13), and Steelman Industries (V97-01, V97-02), curing ovens shall not exceed ten (10) percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 16 of 08/31/99 Permit, (as amended 04/18/00, 03/12/02, and 07/29/03))
14. Emissions from the operation of the wood sawing (V97-29) shall not exceed the limitations specified below:

Total Suspended Particulate	0.05 gr/dscf
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(9 VAC 5-80-110 and 9 VAC 5-40-2270)
15. Emissions from the operation of the Kaufman (V97-09, V97-10, V97-12), Despatch (V97-13), and Steelman Industries (V97-01, V97-02) curing ovens and related dipping operations shall not exceed the limitations specified below:

Volatile Organic Compounds	72.0 tons/yr
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The yearly rate shall be calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-110, 9 VAC 5-50-260, 9 VAC 5-50-180, and Condition 12 of 08/31/99 Permit, (as amended 04/18/00, 03/12/02, and 07/29/03))
16. Emissions from the operation of the paint spray booth (V97-06) shall not exceed the limits specified below:

Total Suspended Particulate	5.0 tons/yr
PM-10	5.0 tons/yr
Volatile Organic Compounds	39.6 tons/yr

The yearly rate shall be calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 13 of 08/31/99 Permit, (as amended 04/18/00, 03/12/02, and 07/29/03))

B. Monitoring and Recordkeeping

1. The permittee shall perform a visible emission observation on the paint spray booth (V97-06), epoxy cast system (V97-31 & V97-32), and curing oven (V97-01, V97-02,

V97-09, V97-10, V97-11, V97-12, V97-13) exhausts once each calendar week when the units are operated for a period of time exceeding the time required for normal start-up. Each visible emissions observation shall be performed for a sufficient period of time to identify the presence of visible emissions. If visible emissions (condensed water vapor/steam is not a visible emission) are observed, a visible emissions evaluation (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9 shall be conducted for a minimum of six minutes. If the six-minute average opacity exceeds the permitted opacity limit, the Method 9 evaluation shall be continued for a total evaluation time of 18 minutes, or action(s) to correct the visible emission condition shall be taken immediately. The corrective action shall be followed by a six-minute VEE in accordance with Method 9 to confirm compliance, or 18 minutes if the opacity continues to be greater than the permitted opacity limit. If excess emissions are expected for greater than one hour, DEQ malfunction procedures shall be implemented.

(9 VAC 5-50-20 and 5-80-110 K)

2. A monthly inspection of the control equipment associated with the silo, electrostatic spray operation (V97-04), wood sawing (V97-29), and sawing/grinding equipment (V97-15A, V97-28, V97-33) shall be conducted by the permittee to insure proper working order and structural integrity.
(9 VAC 5-80-110)
3. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:
 - a. Monthly inspection results for the electrostatic fabric filter recycle separator, fabric filters on sawing, sanding and grinding operations, and silo vent fabric filter equipment.
 - b. Results of weekly opacity observations from the paint spray booth (V97-06), epoxy casting system (V97-31, V97-32), and curing oven exhausts (V97-08, V97-09, V97-10, V97-12, V97-13, V97-31) to include the date, time, unit identification, results of the observation, name of observer, and corrective actions taken.
 - c. Monthly, and annual throughput of materials used in the paint spray booth (V97-06), epoxy casting system (V97-31, V97-32), and dipping operations (V97-12, V97-13), calculated monthly as the sum of each consecutive twelve (12) month period.
 - d. The VOC content of the materials used in the paint spray booth (V97-06), epoxy casting system (V97-31, V97-32), and dipping operations (V97-12, V97-13), are to be determined and certified using approved EPA test methodologies such as 40 CFR part 60, Appendix A EPA Reference Method 24 or equivalent.

- e. VOC emissions and supporting calculations in T/yr from materials used in the paint spray booth (V97-06), dipping operations (V97-12, V97-13), and epoxy casting system (V97-31, V97-32), calculated monthly as the sum of each consecutive twelve (12) month period.
- f. PM10 emissions and calculations T/yr from materials used in the paint spray booth (V97-06) calculated monthly as the sum of each consecutive twelve (12) month period.
- g. Monthly "as-applied" coating composition for the paint spray booth (V97-06).
- h. MSDS for all process materials containing VOC including those used in the paint spray booth (V97-06), epoxy casting system (V97-31, V97-32), and dipping/curing operations (V97-12, V97-13).
- i. Maintenance schedule and associated records of maintenance for pollution control equipment.
- j. Operator training data, including names of trainees, dates of training, and nature of training.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 and Conditions 17 and 21 of 08/31/99 Permit, (as amended 04/18/00, 03/12/02, and 07/29/03))

C. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-50-30 and 9 VAC 5-80-110)
2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

Pollutant	Test Method (40 CFR Part 60, Appendix A)
VOC	EPA Methods 18, 25, 25a
VOC Content	EPA Methods 24, 24a
NO _x	EPA Method 7
SO ₂	EPA Method 6
CO	EPA Method 10
PM/PM-10	EPA Method 5, 17
Visible Emission	EPA Method 9

(9 VAC 5-80-110)

IV. Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
V97-23	Gas - Fired Building Heaters	9 VAC 5-80-720 A	--	--
V97-22	Propane Storage Tank	9 VAC 5-80-720 B	VOC	--
V97-21	Solvents, Cleaners, Adhesives	9 VAC 5-80-720 B	VOC	- - -
V97-20	Welding, Brazing, Soldering	9 VAC 5-80-720 B	PM ₁₀	--
V97-19	Metal Cutting, Grinding, Punching	9 VAC 5-80-720 B	PM ₁₀	--
V97-18	Tin Dipping Operation	9 VAC 5-80-720 B	PM ₁₀	--
V97-05	GEO Olcott Pressure Washer	9 VAC 5-80-720 A	--	--

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

V. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR 60 Subpart TT	Standards of Performance for Metal Coil Surface Coating	Applies to the coating of continuous metal strip that is packaged in a roll.

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to §114 of the

federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
(9 VAC 5-80-140)

VI. General Conditions

A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110 N)

B. Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

- a. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
- b. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
- c. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
- d. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.

- e. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.
(9 VAC 5-80-80 B, C and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements.
 - b. The date(s) analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.
 - f. The operating conditions existing at the time of sampling or measurement.
(9 VAC 5-80-110 F)
2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9 VAC 5-80-110 F)
3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
 - a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
 - b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:
 - (1) Exceedance of emissions limitations or operational restrictions;

- (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or,
 - (3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that “no deviations from permit requirements occurred during this semi-annual reporting period.”
- (9 VAC 5-80-110 F)

D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.
2. The identification of each term or condition of the permit that is the basis of the certification.
3. The compliance status.
4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
6. Such other facts as the permit may require to determine the compliance status of the source.

One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00)
U. S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029.
(9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall notify the Director, Southwest Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition VI.C.3 of this permit.
(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, Southwest Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Southwest Regional Office.
(9 VAC 5-20-180 C)

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-110 G.3)

J. Permit Modification

A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1790, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9 VAC 5-80-190 and 9 VAC 5-80-260)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-110 G.5)

L. Duty to Submit Information

1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6)
2. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350. The actual emissions covered by the permit program fees for

the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.
(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;
4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-50-90)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20 E)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1. (9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

R. Reopening For Cause

1. The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.
2. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
3. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

4. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.

(9 VAC 5-80-160)

2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.

(9 VAC 5-80-160)

3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.

(9 VAC 5-80-160)

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.
2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
 - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.

- c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
 - d. The permittee notified the board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F 2 b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.
- 3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
 - 4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.
(9 VAC 5-80-250)

V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any of the grounds for revocation or termination or for any other violations of these regulations.
(9 VAC 5-80-190 C and 9 VAC 5-80-260)

W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9 VAC 5-80-80 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A-F)

Y. Asbestos Requirements

The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).
(9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)

Z. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)

AA. Changes to Permits for Emissions Trading

No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9 VAC 5-80-110 I)

BB. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)